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ICSF 4.5 Release Strategy

MAJ Bobby Myers
DII COE Engineering Office
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Agenda

- **Introduction**
- **Maintenance Strategy**
 - Patch
 - Current Patch Schedule
- **Upgrade Strategy**
 - Feature Pack (FP)
 - Current and Proposed FP Schedule
- **Patch Installation Logic**
- **Scheduled ICSF 4.5 Releases**
 - Content and Composition Strategy
- **Positives**
- **Summary**



Introduction

How we got here

- **CRCB to COE: “stable baseline”**
- **Services and Agencies:**
 - Want a stable baseline
 - Want only patches after migration to 4.x in order to support development and fielding (system development, OT&E testing requirements, etc.)
 - Want new functionality
 - Want all of this on their own, individual timelines
 - Want COE to pay for all of the above



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Introduction

Analysis

- **In order to meet the CRCB guidance and service/agency requests:**
 - COE developed new (or modified the old) concept for ICSF release methodology
 - NGIT-INRI developed engineering practices to support
- **Over the last 4 months COE and NGIT-INRI analyzed**
- **Patch and Feature Pack (FP) releases to the ICSF v4.5 baseline**

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Maintenance Strategy

Patches

- **Maintenance baseline will be basis for all COE formal releases**
- **Individual patches will be released approx every 8 weeks - no fixed schedule**
 - **COE wants to be flexible to meet the customer needs during migration, SITs, etc.**
- **Patches will be GSPR and emergency (or hot) fixes only; no new features**
- **Patches will be roll-ups - only**
 - **Engr drops will be on a case-by-case exception**
- **4.5P2 - last combo patch**

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Current Patch Schedule

ICSF Version	2001					2002											
	S	O	N	D	I	F	M	A	M	J	J	A	S	O	N	D	
	4.5																
Shaded = Scheduled Clear = Unscheduled	<div><div><div>★ P1</div><div>★ P2</div><div>★ P3 → NOTE: 4.5P3 will be the release for COE v4.6</div><div>★ P4</div></div></div>																



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Upgrade Strategy

Feature Pack (FP)

- **FPs will be basis for all functional enhancements/additions to the 4.5 baseline**
- **FPs will be delivered out of cycle from patches**
 - no fixed schedule
 - SEWG (?) will recommend the FP release date based on the needs of the service C4I programs synchronization strategy
- **FPs will only contain feature enhancements to a specified patch baseline**
 - FPs will not contain new GSPR fixes since specified patch
- **FPs will be a roll-up (i.e., $FP2 = FP1 + \text{new features}$)**

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Upgrade Strategy

Feature Pack (FP) [cont]

- **Engineering drop of FPs will be made available to system development and integration activities only**
 - e.g., no emergency fixes for Blue Flag
- **FPs will be released formally only after going thru the full COE integration and test process**
- **FPs release schedule will be based on two criteria:**
 - **COE Community need (SEWG is arbitrator?); need should be based on major program synchronization**
 - **“Feature Plateau” - define as the ability to release the full functional capability of a feature within the FP**



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Patch Installation Logic

- **In the previous schedule slide, P5 would install fixes for both the P4 and FP1 based machines**
- **P5 will determine the ICSF version installed on the box**
 - **If a P4 or earlier box, P5 will install maintenance fixes to bring box to P5 state**
 - **If a FP1 box, P5 will install the applicable P4 and P5 fixes & FP1 fixes**

(NOTE: probable some fixes will apply to both; probable that some maintenance baseline fixes will not be applicable to the FP baseline)
- **ONLY an FP install will migrate an existing system from the maintenance (or patch) baseline; no reverse action possible**

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Positives

- **Approach addresses CRCB guidance to minimize impact of new features on fielding baselines**
- **Fewer Feature Pack releases enhances community synchronization**
 - Fewer choices to field with different capabilities
 - Also minimizes the number of “significant releases” that the COE must support
- **April and October deliveries include COE components tested against the most stable COE baseline**



Summary

- **COE will support a maintenance baseline and a feature baseline for COE-developed products**
- **Major deliveries (April and October) will be based on the maintenance baseline**
- **Feature Packs will upgrade the feature baseline**
 - **Delivered out-of-cycle from major deliveries**
 - **Schedule will be based on:**
 - **Community need--goal is to have one Feature Pack support all customers**
 - **"Feature Plateau"--goal is to only deliver a Feature Pack when its contents are functionally complete**
- **COE is moving to a commercial model for introducing new functionality (COE Community Process) and offering customers more COE deployment options**





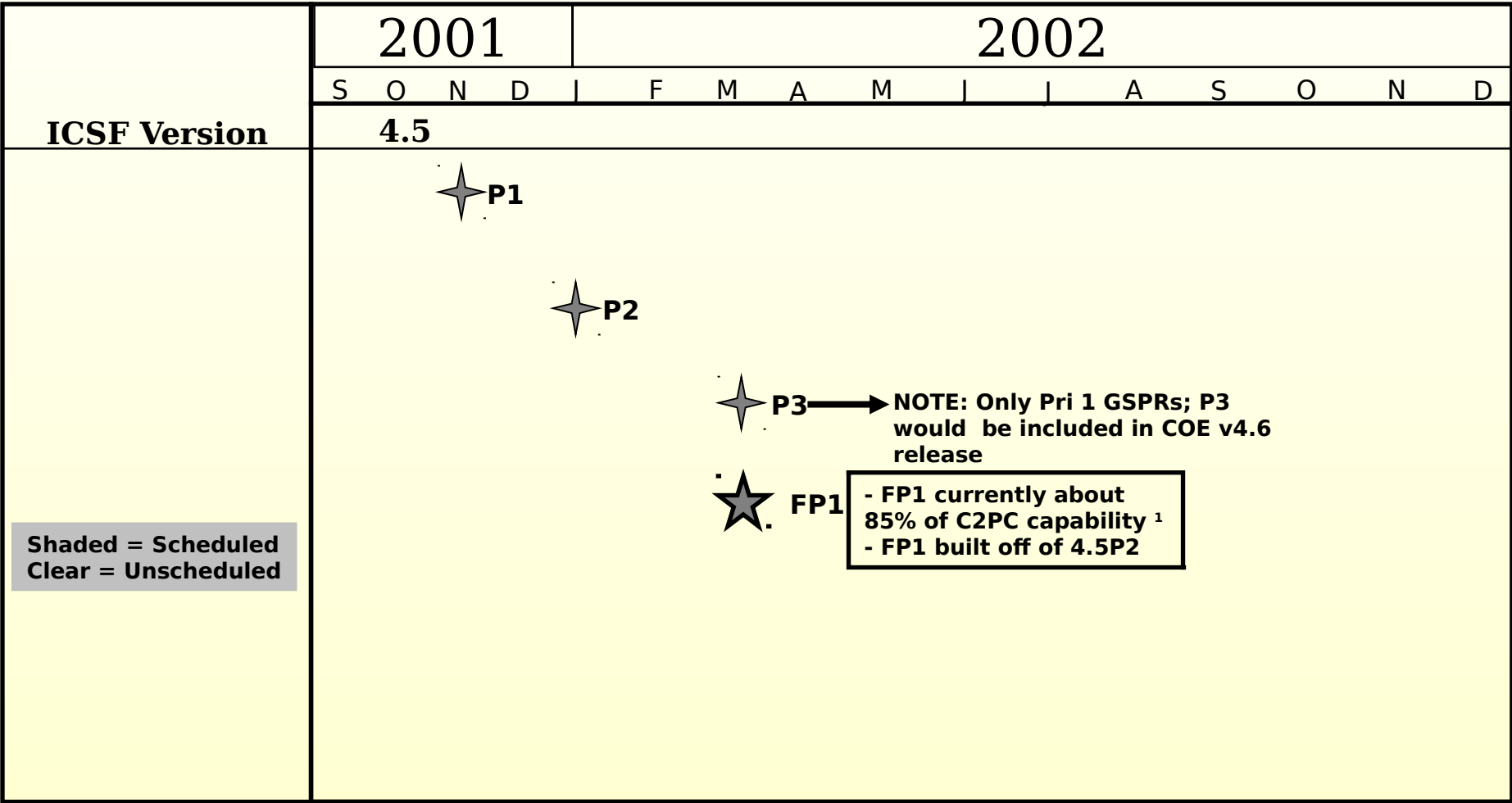
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Backup Slides



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Current FP Schedule

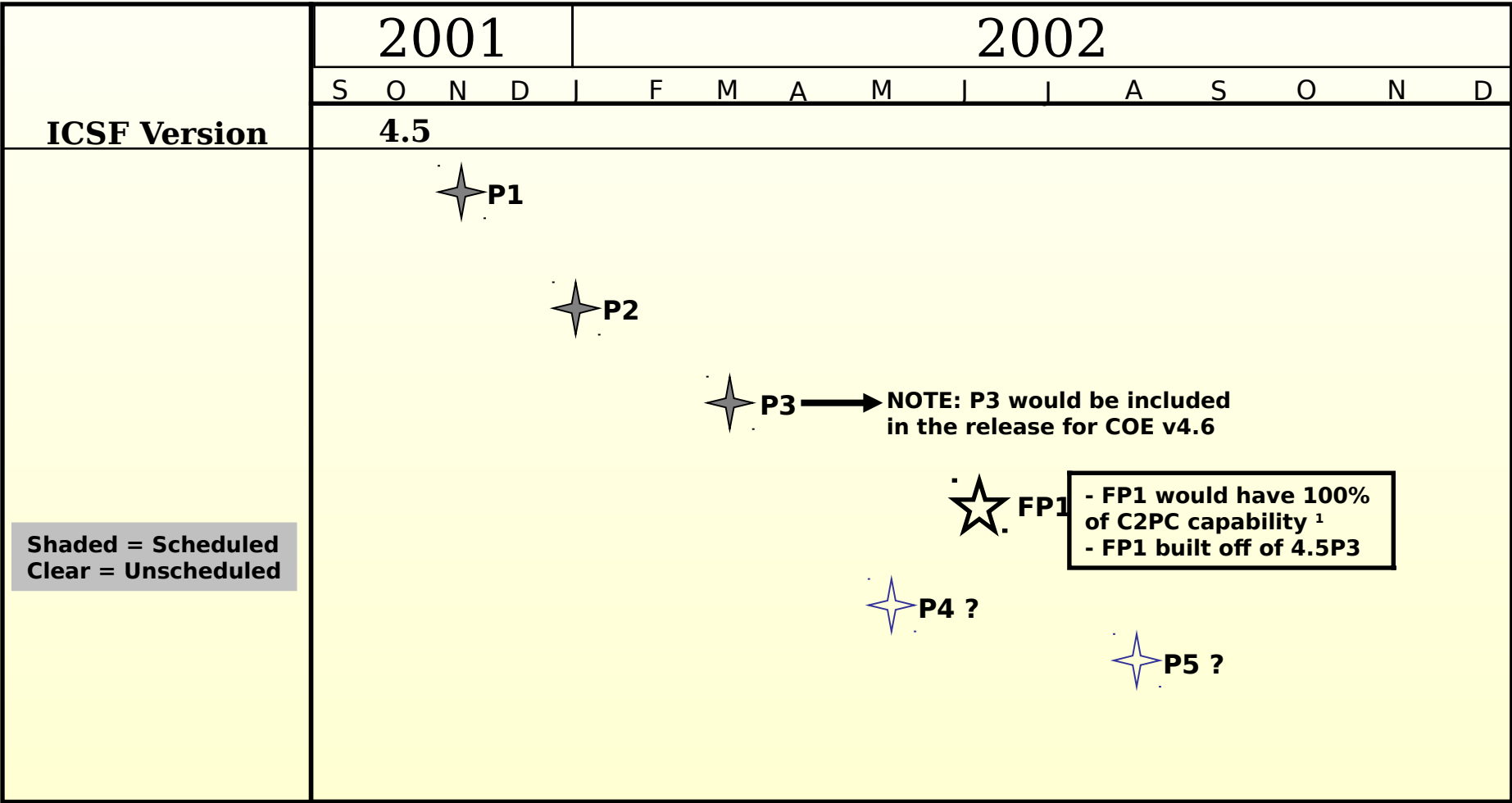


¹ Equals that C2PC v5.5.7 capability briefed at the SEP AOG to be implemented in ICSF v4.6



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Proposed FP Schedule



¹ Equals that C2PC v5.5.7 capability briefed at the SEP AOG to be implemented in ICSF v4.6 & v4.7



ICSF 4.5

Patch 2

- **GSPR fixes**
 - Any open Priority 1s and 2s; some 3s and 4s
- **Usability fixes**
- **Maintain/enhance stability**
- **Features:**
 - 3.x/4.x Track compatibility/interoperability
 - ICSF Alerts tie-in to COE Alerts Server
 - Cartographer performance enhancement
 - Multiple map support



- **GSPR fixes**
 - **Any open Priority 1s and 2s; finish 3s and 4s; start working off the Priority 5s**
- **Usability fixes**
- **Maintain/enhance stability**



Patch 4 and beyond - strategy

- **Patch baseline maintenance**
 - Any open Priority 1 - 3s; continue working off the Priority 4s and 5s
- **Feature Pack baseline maintenance**
 - Any open Pri 1 and 2s
 - Pri 3 thru 5 as resources are available
- **Usability fixes**
- **Maintain/enhance stability**



Feature Pack 1

C2PC Equivalency

- **TMS**

- **Disconnected Operations: capability to work offline using only the local replicated TMS DB for visualization and edits (basic track edits and simple attribute correlation in support of edits)**
- **Bandwidth Limited Track Distribution**

- **Visualization**

- **Time/direction references**
- **Quick range/bearing/point**



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Feature Pack 1

Other Features/Enhancements

- **TAB37 decoder enhancement**
 - Refactor TRS and TRETABULAR interfaces to work off the TAB37 decoder
- **Navy correlation initiatives (wedge)**
- **3D Line of Sight**



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C2PC Equivalency - post COE 4.6 (ICSF v4.5FP2)

- **Visualization (server)**
 - **Support additional:**
 - **Map projection types**
 - **Map products**
 - **Enhanced Map Manager**
- **Comms**
 - **GPS support**
 - **Support interfaces to tactical radios**
 - **Tactical comm viewer**